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**Design Your Own Lab: Water Beads**

**Problem:** *Circle one of the following or get approval for your own idea from the teacher:*

* Does the type of liquid affect the size of the water bead?
* Does the temperature of the liquid affect the size of the water bead?
* Does the type of liquid affect the mass of the water bead?

**Hypothesis:** *Complete the following hypothesis statement based on your chosen problem:*

If the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ affects the water bead, then

(Independent Variable)

the\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the water bead will be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

(Dependent Variable) (Prediction)

*List the constants in your experiment:*

**Materials:** *List all of the materials you will need to conduct your experiment.*

**Procedure:** *Describe the steps you will take to conduct your experiment. Include enough detail so that someone else could repeat the experiment in the same way you did.*

**Data:** *Make a table and record your data below.*

**Analysis:** *Create a graph of your data below.*

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**Conclusion:** *Write a paragraph discussing the following:*

* *Did your results support your hypothesis? Explain.*
* *Are your results reliable? Explain.*